

Fig. 1A

SUS1	SEQ ID NO: 2	ENGIL <u>RR</u> KWISRFDVW	native
SUS2	SEQ ID NO: 3	ENGIV <u>RR</u> KWISRFEVW	native
SS2	SEQ ID NO: 10	GIV <u>RR</u> KWISRFEVWPYL KK	active
SS11	SEQ ID NO: 11	ILRVPFRTENGIV <u>RR</u> K (NH ₂)	inactive
SS12	SEQ ID NO: 12	GIV <u>RR</u> KWISRFEVWPYL (NH ₂)	active
SS15	SEQ ID NO: 13	GIV <u>RR</u> K A ISRFEV A PYL (NH ₂)	less active
SS16	SEQ ID NO: 14	SRFEVWPYL (NH ₂)	less active
SP3	SEQ ID NO: 18	^N RR ISSVE ^N ^N DKK (NH ₂)	inactive
NR11	SEQ ID NO: 15	GPTL <u>RR</u> TASTAFMNTTS KK	inactive
SP26	SEQ ID NO: 16	GRM <u>RR</u> IATVEM KK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EHGIVTNWDDMEKIWHHTFY	consensus

Double basic cluster: black box; e.g. **KK**

Possible region of specificity: underlined or boxed

Substitutions: bold

Fig. 1B

EN	GIVRK	WI	SRFEVW	PYL	KK
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X_4	X_3	X_2	X_1	X_5	X_6
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SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X_1	SRFEVW
SEQ ID NO:17	X_2-X_1	WISRFEVW
SEQ ID NO:14	X_1-X_5	SRFEVWPYL
SEQ ID NO:23	$X_2-X_1-X_5-X_6$	WISRFEVWPYLKK
SEQ ID NO:12	$X_3-X_2-X_1-X_5$	GIVRKWISRFEVWPYL
SEQ ID NO:10	$X_3-X_2-X_1-X_5-X_6$	GIVRKWISRFEVWPYLKK
SEQ ID NO:24	$X_4-X_3-X_2-X_1-X_5-X_6$	ENGIVRKWISRFEVWPYLKK